



AREA CODE 212
YUKON 9-2093

RCA Institutes Announces an Important Seminar --
DIGITAL SYSTEMS ENGINEERING
To Be Presented in Palm Beach, Florida

This seminar, which has been over-subscribed at all previous presentations, will deal directly with problems of generation, transmission, storage and processing of digital information.

Typical problems involving sequential functions, random code generation, digital communications, interface compatibility, error reduction, timing and buffering will be discussed and effective methods of solutions will be presented. Demonstration equipment will be used to illustrate both problems and solutions.

The place: Holiday Inn
 2770 South Ocean Blvd
 Phone (505) 582-5381

The dates: April 18 through April 22, 1966
9:00 a.m. to 4:30 p.m. daily

This 5-day seminar developed through extensive field research, is intended for design and development engineers, educators and others who have a desire to obtain a clear and coherent understanding of the principles and techniques of digital systems.

We urge you to register promptly, since attendance will be limited. A folder covering the seminar is enclosed as well as a registration form. Hotel reservations should be made directly with the hotel.

Please call or write us, should you have any questions.

Sincerely,

Bradford Daggett

BD/DSE-4

A partial list of the companies that have sent personnel to attend our computer seminars

AMERICAN MACHINE AND FOUNDRY CO.
BELL TELEPHONE LABORATORIES
BENDIX CORP.
BURROUGHS CORP.
COLGATE-PALMOLIVE CO.
COLUMBIA BROADCASTING SYSTEM
CONTROL DATA CORP.
CORNING GLASS WORKS
FAIRCHILD CAMERA AND INST. CORP.
GENERAL DYNAMICS ELECTRONICS
GENERAL MOTORS CORP.
GRUMMAN AIRCRAFT ENGINEERING CORP.
HONEYWELL INC.
INTERNATIONAL BUSINESS MACHINE CORP.
MARTIN CO.

PITNEY-BOWES, INC.
PROCTER & GAMBLE CO.
RADIO CORPORATION OF AMERICA
RAYTHEON CO.
SPERRY RAND CORP.
SPRAGUE ELECTRIC CO.
STROMBERG-CARLSON CO.
SYLVANIA
THE BUDD CO.
THE MITRE CORP.
UNITED AIR LINES
UNIVERSAL CIRCUIT CONTROLS
WESTERN ELECTRIC CO.
WESTERN UNION TELEGRAPH CO.
WESTINGHOUSE ELECTRIC CORP.
XEROX CORP.

REQUEST FOR SEMINAR REGISTRATION(S)

To: RCA INSTITUTES, Inc.

School of Custom Educational Programs

350 West 4th Street, New York, N. Y. 10014

REGISTRATION RATE FOR 5-DAY SEMINAR: \$350.00

DIGITAL SYSTEMS ENGINEERING ~

PALM BEACH, FLA.

APRIL 18-22, 1966

☐ **Purchase Order Enclosed**

☐ **Check Enclosed**

☐ **Bill Company**

☐ **Bill Me**

Please register the following persons for the seminar, indicated above.

NAME _____

TITLE _____

NAME _____

TITLE _____

NAME _____

TITLE _____

AUTHORIZED BY _____

signature

title

FIRM'S NAME AND ADDRESS _____

CE 206-2

☐ **Additional Hotel Reservation Information Requested**

Please make checks payable to RCA Institutes, Inc.

Digital Systems Engineering

INTRODUCTION

DIGITAL SYSTEMS ENGINEERING is one of a series of seminars on modern technology developed by RCA Institutes. In this program, the engineer will be presented with practical, up-to-date design procedures for digital systems too complex for conventional techniques.

SCOPE

This seminar will begin with a development of simple but powerful methods of single and multiple function design. Following this, procedures for the generation, transmission, acquisition, and storage of digital data will be explored. Typical problems of interface, noisy channel, and error-detection will be solved. Finally, methods of processing digitally-encoded data will be presented.

The "building-block" approach used throughout permits the application of all procedures in such areas as magnetics and fluid logic, as well as electronics.

PREREQUISITES

This presentation is directed to engineers and technical personnel concerned with the theory, design, and operation of complex switching or digital systems. The minimum requirements are a baccalaureate degree in mathematics, engineering, or physics, or the equivalent. Experience in switching circuits or digital systems may be substituted for the minimum educational requirements.

STAFF

This seminar will be presented by members of the staff of RCA Institutes' School of Custom Educational Programs, under the direction of

Bradford Daggett, Director

Alfred B. Peticolas, Dean, Program Coordination

Matthew V. Mahoney, Dean, Technical Programs

Abraham Schwartz, Member of Technical Staff

Mario C. Laguzzi, Member of Technical Staff

and

The Board of Technical Advisers, representing various technical, research, and educational activities of the Radio Corporation of America and its subsidiaries.

SEMINAR OUTLINE

FIRST DAY

BASIC DESIGN PROCEDURES

Review of designation numbers; matrix circuits for multiple-function, high-order problems; NAND/NOR design; standard logic packages.

SECOND DAY

GENERATION OF THE SIGNAL

Type D, RS, T, and clocked J-K flip-flops; design of coded counters; precision digital measurements; sampling techniques; analog-to-digital, and digital-to-analog conversion.

THIRD DAY

TRANSMITTING DIGITAL INFORMATION

Sequential function generation; design of shift registers; binary codes; techniques of error reduction; digital communications; pseudo-random and period code generation.

FOURTH DAY

RECEIVING AND TRANSLATING DIGITAL INFORMATION

Interface design problems; change of logic levels; timing and synchronization; data buffering; code format conversion; noise and hum problems. Data acquisition, storage, and read-out; random-access memory.

FIFTH DAY

PROCESSING OF DIGITAL INFORMATION

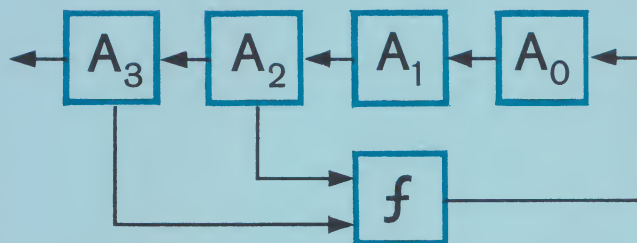
Serial and parallel data processing; techniques for addition, subtraction, multiplication, and division; correction for decimal codes; design of sample control unit.

SEMINAR INFORMATION

Seminars will be limited in size. Registrations will be accepted in the order received. Substitution of applicants may be made at any time. Cancellations will be honored and fee refunded provided notification is received no later than two weeks prior to the seminar.

Hotel Accommodations—RCA Institutes reserves a block of rooms in each seminar hotel. Please make reservations directly with the hotel, with reference to RCA Institutes' seminar.

Registration fee includes attendance, luncheon, coffee break, and a complete package of reference material. Telephone answering service is provided during seminar hours.



RCA INSTITUTES Announces A Five-Day Seminar—

DIGITAL SYSTEMS ENGINEERING



RCA INSTITUTES, Inc.

A Service of Radio Corporation of America

Schools of Television and Electronics Technology

350 West 4th Street

New York, N.Y. 10014

Digital Systems Engineering

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